

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

Claims 1-22 (canceled).

23. (currently amended) A data receiving method for receiving information data containing additional information data therewith, transmitted by a data transmission method comprising the steps performed at a transmitter side of:

preparing a data frame of said information data into which the additional information data is to be embedded,

embedding said additional information data plural times into said data frame, as an electronic watermark, repetitively and separately in said data frame, and

transmitting said data frame of the information data embedded in said data frame with the repetitive and separate additional information data A data transmission method as claimed in Claim 22;

said data receiving method comprising the steps performed at a receiver side of:

receiving the transmitted data frames of information data embedded in said data frame with the repetitive and separate additional information data therein,

detecting the repetitive and separate additional information data embedded in said data frame from said transmitted data frames of information data, and

determining said additional information data based on repetitiveness of
the additional information data detected,

wherein said determining step includes a step of:

determining said additional information data based on a majority rule of
the repetitive and separate additional information data embedded in at
different positions said data frame.

24. (currently amended) A data transmission method as claimed in
Claim 2324, wherein said information data includes at least one of video data,
audio data and text data.

25. (currently amended) A data transmission method as claimed in
Claim 2322, wherein said information data includes at least one of video data,
audio data and text data.

26. (currently amended) A data reproducing Aapparatus for
reproducing information data transmitted from a data transmission apparatus
for transmitting the information data containing additional information data
therewith, comprising:

first means for preparing a data frame of said information data into
which the additional information data is to be embedded;
second means for preparing said additional information data in
accordance with a predetermined conversion table;

third means for embedding said additional information data, as an electronic watermark, in the first means by plural times into the data frame, repetitively and separately at different positions in said data frame; and fourth means for transmitting the information data embedded at different positions in said data frame with the repetitive and separate additional data therein;

wherein said data reproducing apparatus for reproducing the transmitted information data transmitted by the data transmission apparatus comprising:

fifth means for receiving the transmitted said data frame of information data embedded in said data frame with the repetitive and separate additional information,

sixth means for detecting the repetitive and separate additional information data which are embedded in said data frame of the information data received, and

seventh means for determining said embedded additional information data based on repetitiveness of the additional information data detected.

27. (currently amended) An data transmission apparatus as claimed in Claim 26, wherein said fourth means comprises:

means for recording the information data embedded at different positions in said data frame with the repetitive and separate additional information data onto an optical information recording medium.

28. (canceled).

29. (currently amended) An data-reproducing-apparatus as claimed in the claim 2628, wherein said fifth first means comprises:
means for reproducing the information data embedded at different positions in said data frame with the repetitive and separate additional information data from an optical information recording medium.

30. (currently amended) An information recording medium for recording data therein, comprising:
information data being reproducible in the form of a data frame; and additional data embedded, as an electronic watermark by plural times into said information data of said data frame, repetitively and separately at different positions in said data frame,
wherein a transmitter side transmits said data frame of the information data embedded in said data frame with the repetitive and separate additional information data,
wherein a receiver side receives the transmitted data frames of information data embedded in said data frame with the repetitive and separate additional information data therein, detects the repetitive and separate additional information data embedded in said data frame from said transmitted data frames of information data, and determines said additional information data based on repetitiveness of the additional information data detected, and
wherein said receiver side determines said additional information data based on a majority rule of the repetitive and separate additional information data embedded in said data frame.

31. (previously presented) An information recording medium as claimed in claim 30, wherein information relating to a repetition number of the embedded additional data is recorded into a part of said information recording medium.